

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 July 2004 (29.07.2004)

PCT

(10) International Publication Number
WO 2004/063686 A1

(51) International Patent Classification⁷: **G01K 1/08**
(21) International Application Number:
PCT/US2003/000224

(74) Agent: **LEONARDO, Mark, S.**; Brown Rudnick Berlack
Israels LLP, One Financial Center, Boston, MA 02111
(US).

(22) International Filing Date: 6 January 2003 (06.01.2003)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **SHER-
WOOD SERVICES AG** [CH/CH]; Postfach 1571, Bahn-
hofstrasse 29, CH-8201 Schaffhausen (CH).

(72) Inventors; and

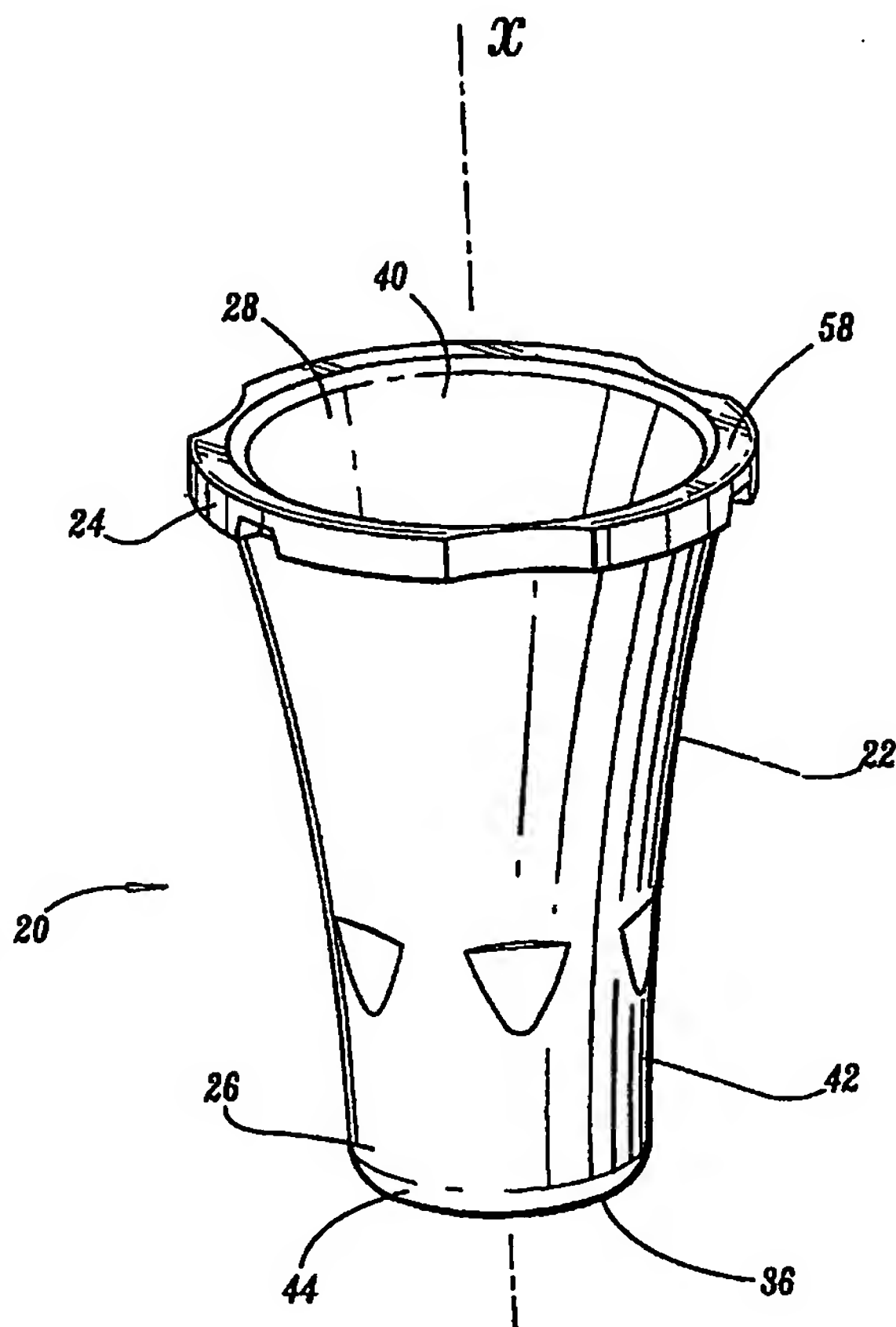
(75) Inventors/Applicants (for US only): **LANTZ, Loren**
[US/US]; 810 North 7th Street, St. Charles, MO 63301
(US). **HARR, James** [US/US]; 221 Woods Creek Drive,
Foristell, MO 63348 (US). **DAVIS, Mark** [US/US]; 2001
Hwy Y, St. Paul, MO 63366 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,
MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ,
TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI,
SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: TYMPANIC THERMOMETER PROBE COVER



(57) Abstract: A probe cover (20) is provided including a tubular body extending from a proximal end (24) to a distal end (26). The proximal end defines an opening configured for receipt of a distal end of a thermometer. The distal end of the tubular body is substantially enclosed by a film (36). The distal end includes at least one end rib (38) disposed about an inner circumference thereof. At least one end rib is configured to engage the distal end of the thermometer such that the distal end of the thermometer is spaced apart from the film. The body may extend in a tapered configuration from the proximal end to the distal end. The end rib can include a transverse portion disposed along a surface of the film. The end rib may include a longitudinal portion extending along the body. The longitudinal portion may extend proximally along the body and the transverse portion may project along a surface of the film such that the longitudinal portion and the transverse portion cooperate to receive the distal end of the thermometer. The body may define at least one longitudinal rib projecting from an inner surface thereof. The body may define at least one protuberance projecting from an inner and/or an outer surface thereof. The longitudinal rib and/or the protuberances can be configured to facilitate nesting of a second probe cover.

WO 2004/063686 A1



Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.